

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529955

Luminaire Tested: **GALN-SA5A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9931 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

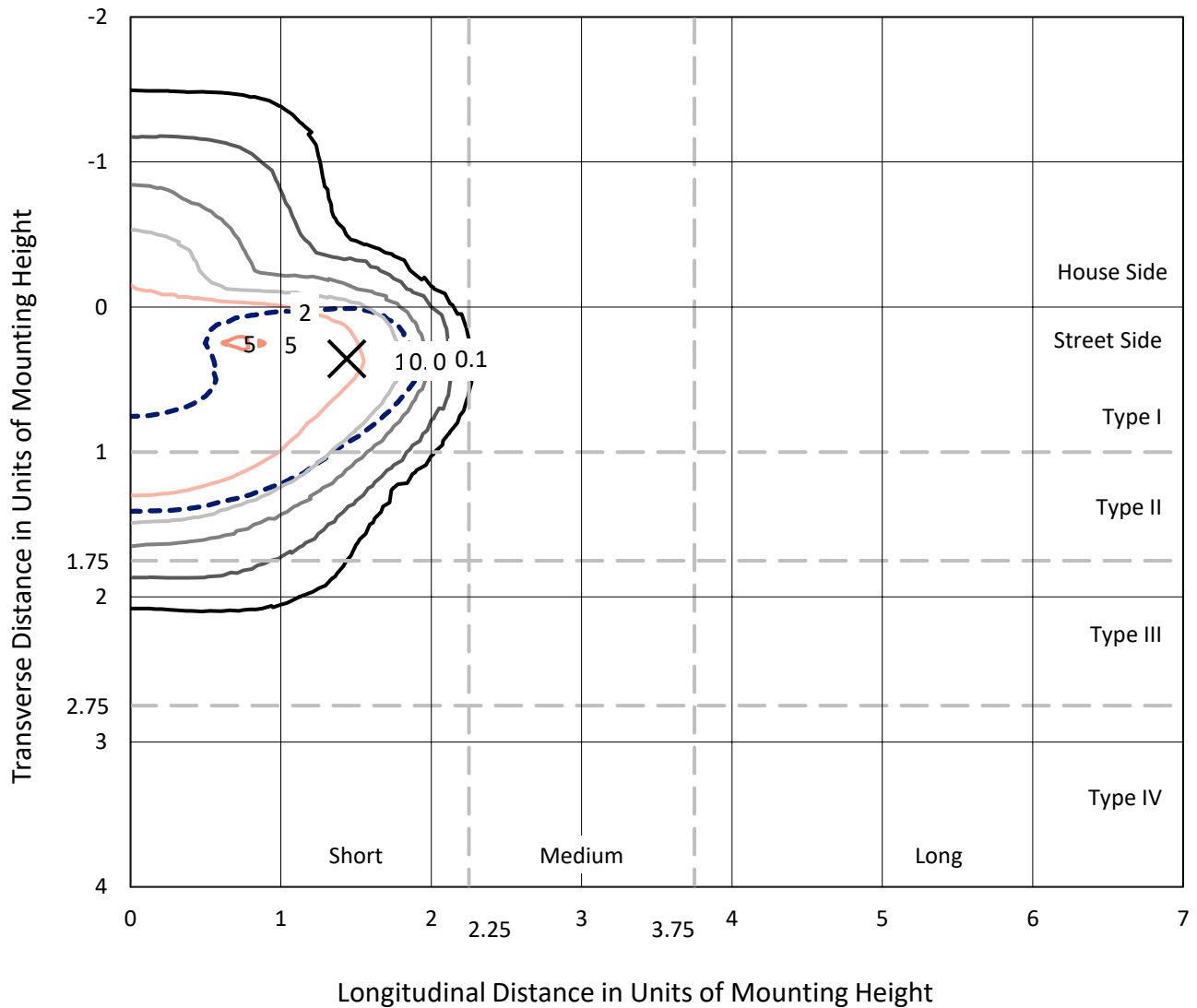
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

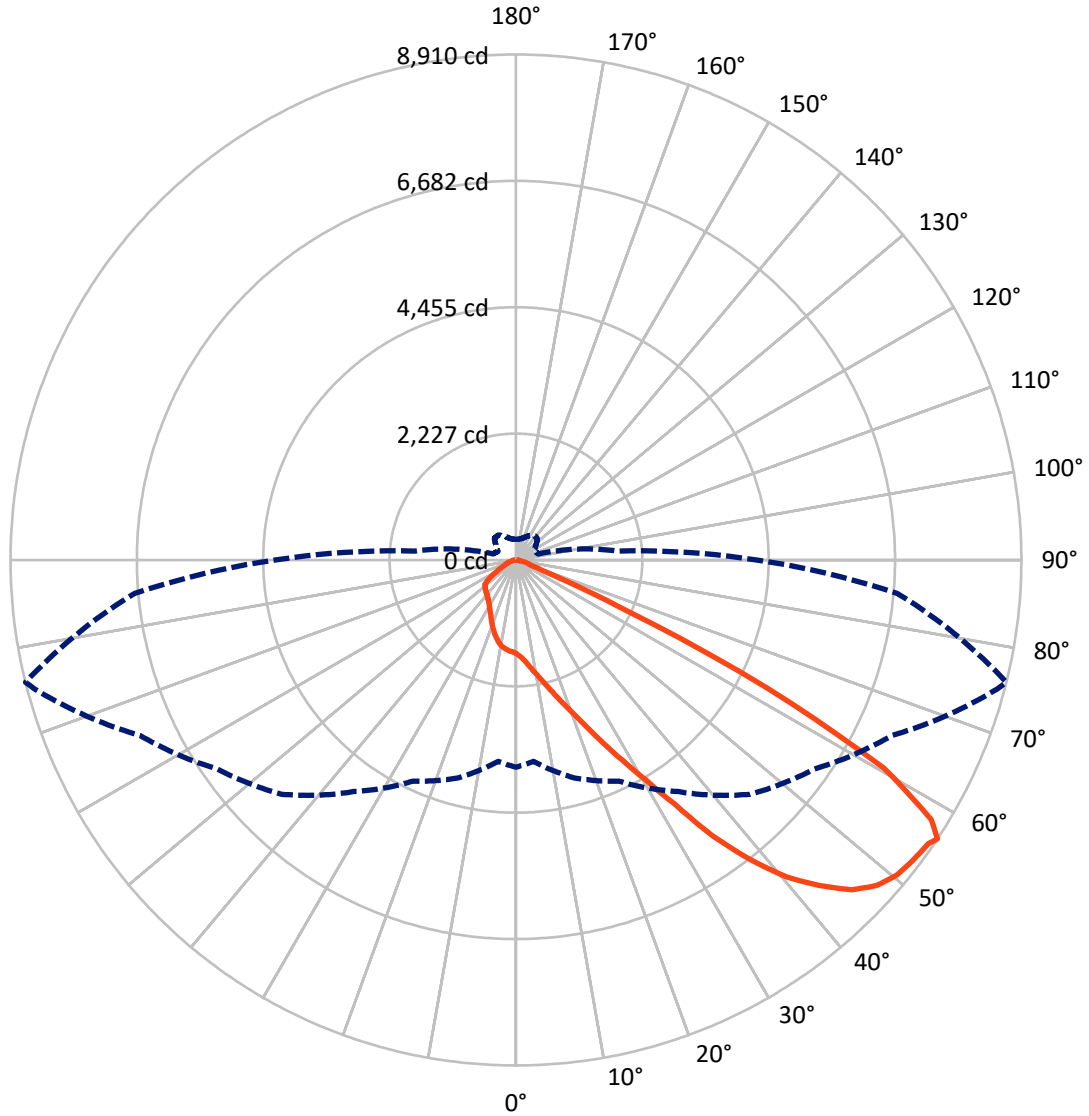
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1560.1	0.0	1560.1
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	8370.9	0.0	8370.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	9931.0	0.0	9931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.5	1.7
10°-20°	535.0	5.4
20°-30°	970.0	9.8
30°-40°	1672.9	16.8
40°-50°	2717.6	27.4
50°-60°	2864.5	28.8
60°-70°	875.2	8.8
70°-80°	112.2	1.1
80°-90°	17.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9931.0	100.0
0°-180°	9931.0	100.0

**Coefficient of Utilization**

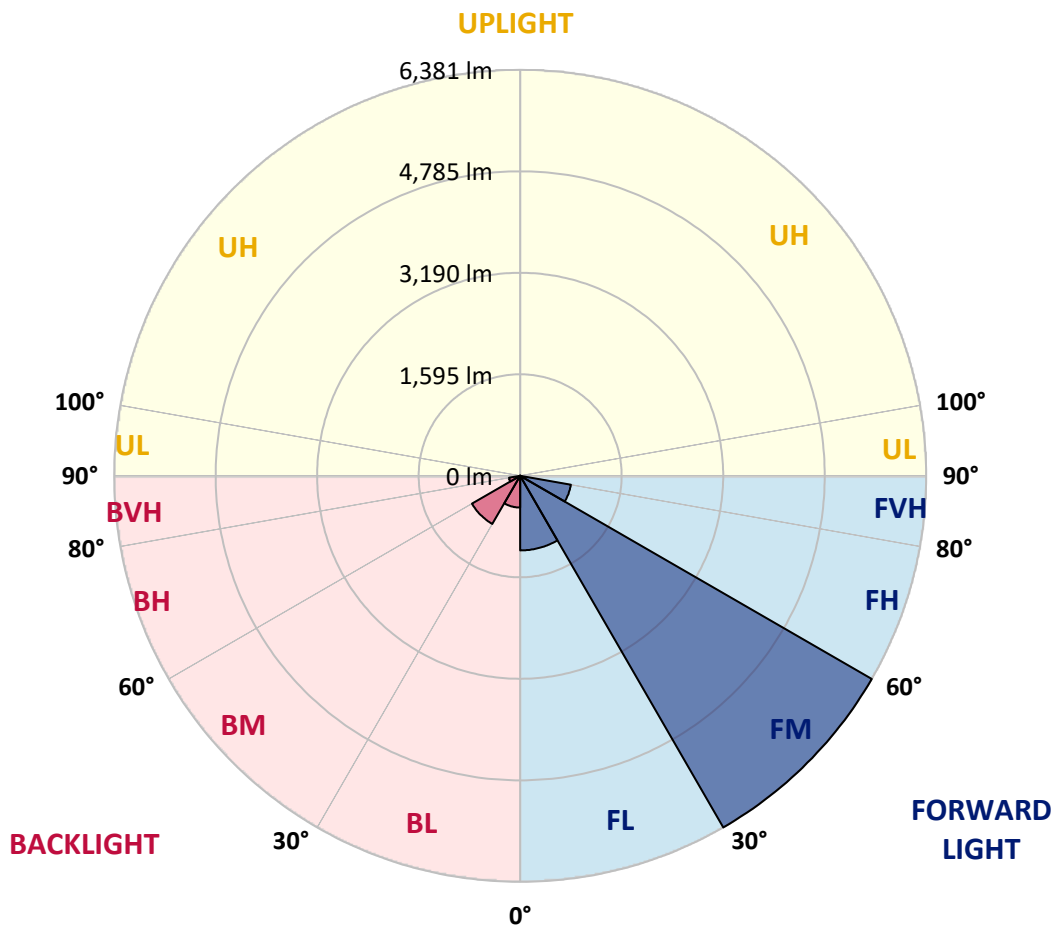


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.4	11.8			
FM (30°-60°)	6380.7	64.2			
FH (60°-80°)	809.4	8.2			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	499.1	5.0	B1/500		
BM (30°-60°)	874.4	8.8	B1/1000		
BH (60°-80°)	178.0	1.8	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0
2.5°	1903.8	1859.9	1861.7	1858.1	1852.6	1832.4	1772.0	1762.9	1722.6	1711.6	1675.0
5°	2132.6	2094.2	2116.2	2083.2	2052.1	2033.8	1934.9	1889.2	1825.1	1801.3	1750.1
7.5°	2275.4	2257.1	2249.8	2251.6	2222.3	2176.6	2132.6	2032.0	1945.9	1927.6	1819.6
10°	2345.0	2334.0	2345.0	2339.5	2352.3	2357.8	2280.9	2220.5	2094.2	2063.1	1894.7
12.5°	2361.5	2383.4	2392.6	2416.4	2447.5	2500.6	2495.1	2412.7	2244.3	2224.2	2010.0
15°	2401.7	2420.1	2410.9	2449.3	2507.9	2597.6	2645.2	2632.4	2451.2	2414.6	2143.6
17.5°	2438.4	2405.4	2436.5	2513.4	2572.0	2709.3	2824.6	2877.7	2676.3	2634.2	2266.3
20°	2487.8	2478.6	2473.1	2511.6	2615.9	2799.0	3027.8	3124.8	2929.0	2885.0	2442.0
22.5°	2637.9	2639.7	2636.1	2579.3	2654.4	2861.2	3205.4	3445.2	3231.0	3194.4	2641.6
25°	2835.6	2811.8	2793.5	2747.7	2738.6	2918.0	3384.8	3836.9	3593.5	3567.8	2857.6
27.5°	3044.3	3044.3	2989.4	2947.3	2888.7	3058.9	3549.5	4217.7	4031.0	3996.2	3046.1
30°	3271.3	3284.1	3276.8	3187.1	3150.5	3212.7	3717.9	4704.6	4532.6	4488.6	3357.3
32.5°	3606.3	3578.8	3609.9	3534.9	3426.9	3481.8	3983.4	5140.3	5184.3	5122.0	3765.5
35°	4049.3	4032.8	4012.7	3890.0	3761.9	3805.8	4358.7	5676.7	6002.5	5971.4	4177.4
37.5°	4446.5	4437.4	4420.9	4336.7	4188.4	4241.5	4785.2	6235.0	6800.7	6698.2	4759.6
40°	4863.9	4913.3	4860.2	4785.2	4649.7	4766.9	5286.8	6566.4	7472.5	7348.0	5204.4
42.5°	5429.6	5391.1	5414.9	5277.6	5204.4	5332.5	5790.2	6897.7	7994.2	7845.9	5676.7
45°	6031.8	6033.7	5969.6	5925.6	5735.3	5874.4	6099.6	7080.8	8409.8	8294.4	6033.7
47.5°	6418.1	6416.2	6485.8	6555.4	6359.5	6222.2	6310.1	7254.7	8623.9	8570.9	6163.6
50°	6357.7	6376.0	6465.7	6725.6	6828.1	6643.2	6507.8	7203.4	8721.0	8715.5	6275.3
52.5°	5530.2	5590.6	5740.8	6116.0	6632.3	6861.1	6714.6	7298.6	8768.6	8777.7	6441.9
55°	4210.4	4243.3	4528.9	4984.7	5555.9	6339.4	6632.3	7373.6	8805.2	8821.7	6643.2
56°	3652.0	3564.2	3976.1	4300.1	4982.9	5839.6	6423.6	7315.1	8783.2	8909.5	6743.9
57.5°	2756.9	2698.3	3031.5	3436.0	4093.2	4997.5	5775.5	7038.6	8634.9	8633.1	6599.3
60°	1676.8	1618.2	1874.5	2112.5	2480.5	3077.2	3902.8	5605.3	7300.4	7454.2	5343.5
62.5°	997.7	1034.3	1286.9	1431.5	1550.5	1612.8	2019.1	3331.7	4871.2	4981.1	3315.2
65°	664.5	677.3	867.7	1105.7	1158.8	922.6	821.9	1349.2	2112.5	2044.8	1367.5
67.5°	410.1	439.3	582.1	831.1	920.8	673.7	389.9	503.4	582.1	582.1	395.4
70°	249.0	263.6	388.1	565.7	631.6	433.9	283.7	283.7	280.1	274.6	236.1
72.5°	119.0	128.1	197.7	291.1	296.6	228.8	219.7	239.8	234.3	232.5	195.9
75°	51.3	54.9	69.6	91.5	104.3	97.0	133.6	172.1	177.6	172.1	141.0
77.5°	16.5	18.3	25.6	33.0	34.8	42.1	56.7	71.4	82.4	76.9	69.6
80°	1.8	3.7	7.3	16.5	25.6	33.0	42.1	47.6	53.1	53.1	49.4
82.5°	1.8	1.8	7.3	14.6	23.8	31.1	40.3	45.8	53.1	54.9	51.3
85°	0.0	1.8	5.5	12.8	20.1	20.1	18.3	18.3	12.8	12.8	12.8
87.5°	0.0	0.0	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0	1653.0
2.5°	1667.7	1664.0	1614.6	1583.5	1567.0	1534.0	1513.9	1499.3	1488.3	1475.5	1477.3
5°	1689.6	1676.8	1594.5	1537.7	1470.0	1433.4	1402.2	1376.6	1360.1	1356.5	1349.2
7.5°	1751.9	1684.2	1559.7	1457.2	1371.1	1334.5	1307.0	1290.6	1297.9	1281.4	1294.2
10°	1799.5	1698.8	1517.6	1369.3	1283.2	1255.8	1241.1	1254.0	1272.3	1264.9	1255.8
12.5°	1858.1	1713.4	1449.8	1285.1	1204.5	1184.4	1210.0	1233.8	1270.4	1285.1	1266.8
15°	1924.0	1729.9	1363.8	1188.1	1136.8	1153.3	1197.2	1239.3	1275.9	1294.2	1305.2
17.5°	2004.5	1724.4	1279.6	1111.2	1072.7	1120.3	1173.4	1211.9	1266.8	1294.2	1286.9
20°	2079.6	1706.1	1186.2	1034.3	1036.1	1080.1	1124.0	1186.2	1215.5	1252.1	1239.3
22.5°	2151.0	1673.2	1089.2	981.2	981.2	1048.9	1070.9	1111.2	1136.8	1155.1	1153.3
25°	2251.6	1610.9	1008.7	929.9	951.9	995.8	1014.2	1027.0	1016.0	1030.6	1032.5
27.5°	2323.0	1546.9	942.8	884.2	924.5	957.4	951.9	944.6	919.0	898.8	911.6
30°	2399.9	1471.8	886.0	853.1	875.0	904.3	882.3	860.4	820.1	787.2	789.0
32.5°	2509.7	1437.0	836.6	816.4	845.7	849.4	825.6	792.6	752.4	721.3	719.4
35°	2714.8	1415.1	794.5	792.6	798.1	800.0	776.2	735.9	719.4	693.8	702.9
37.5°	2919.8	1404.1	765.2	757.9	756.0	757.9	730.4	692.0	723.1	721.3	724.9
40°	3181.6	1453.5	723.1	713.9	715.8	715.8	681.0	670.0	724.9	730.4	732.2
42.5°	3447.0	1515.7	695.6	666.3	673.7	673.7	655.4	642.5	681.0	644.4	638.9
45°	3677.7	1607.3	666.3	618.7	637.0	646.2	640.7	618.7	594.9	532.7	532.7
47.5°	3752.7	1687.8	631.6	573.0	587.6	627.9	611.4	565.7	523.6	472.3	468.6
50°	3884.5	1775.7	604.1	519.9	551.0	600.4	584.0	538.2	490.6	454.0	455.8
52.5°	4020.0	1876.4	552.8	457.6	496.1	578.5	578.5	527.2	454.0	428.4	424.7
55°	4223.2	1872.7	461.3	375.3	443.0	545.5	554.7	472.3	406.4	386.3	386.3
56°	4252.5	1788.5	415.5	351.5	419.2	536.4	538.2	457.6	388.1	366.1	366.1
57.5°	4032.8	1614.6	364.3	322.2	389.9	519.9	521.7	444.8	373.4	342.3	338.7
60°	3102.9	1092.9	303.9	287.4	353.3	468.6	477.8	404.6	327.7	303.9	302.0
62.5°	1751.9	605.9	267.3	259.9	303.9	399.1	426.5	353.3	278.3	265.4	269.1
65°	800.0	333.2	225.2	210.5	245.3	307.5	344.2	291.1	228.8	214.2	214.2
67.5°	292.9	227.0	192.2	166.6	172.1	199.5	223.3	188.6	151.9	130.0	135.5
70°	208.7	190.4	168.4	144.6	133.6	130.0	128.1	106.2	75.1	58.6	62.2
72.5°	168.4	157.4	141.0	122.7	104.3	87.9	75.1	54.9	34.8	23.8	22.0
75°	120.8	115.3	102.5	87.9	73.2	62.2	51.3	34.8	18.3	9.2	9.2
77.5°	62.2	62.2	60.4	54.9	45.8	36.6	29.3	20.1	11.0	3.7	3.7
80°	47.6	51.3	53.1	47.6	42.1	33.0	23.8	14.6	7.3	1.8	1.8
82.5°	45.8	53.1	56.7	49.4	42.1	31.1	23.8	14.6	7.3	1.8	1.8
85°	11.0	11.0	16.5	18.3	23.8	25.6	20.1	12.8	5.5	1.8	1.8
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)